0107-031

Anti-petasin Antibodies, Methods for Making is a continuation of international application No. PCT/DE99/03525, ON November 1, 1999. Field of invention

The invention relates to anti-petasin antibodies for detecting petasin or petasin protein conjugates in physiological liquids which do not show any cross reactivity to derivatives, structural analogs or metabolics of petasin, methods for producing them by immunization by petasin derivatives which are suitably coupled to a carrier molecule, and to their use and a test kit.

Background

Petasin, a component of butterbur extracts is a known ester of petasol and angelic acid which already for a longer time has been used as vegetable spasmoanalgesic for combatting spasms of the gastrointestinal tract, in particular ureteral colics, spastic bronchititis and migraine and also as an antiphlogistic (B. Debrunner et al.; Pharm. Acta Helv. 72, 359-380 (1998). In addition, an antitumor effect is attributed to petasin drugs (B. Meier et al., Hagers Handbuch der pharmazeutischen Praxis (Manual of pharmaceutical practice), 5th edition, p. 81-105, Springer-Verlag (1994)). Also the latest findings relating to the effects on the biosynthesis of leukotrienes are available (D. Pichl et al., Planta Medica, 60, 318-322 (1994)).

After oral application of petasin drugs only concentrations in the 25 range of a few ng/ml are to be expected in body fluids of healthy subjects. Due to this background biological, physical and chemical methods of detection applied in characterizing the drug itself cannot be used for quantifying petasin in body fluids. Even most up-to-date analytical methods such as the HPLC usually applied are not sufficiently sensitive or not suitable due to their large 30 time requirement for large numbers of samples.

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